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Case Docket No.: DP-310179

Date: May 15, 2007

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Taeyoung Han et al.

Serial No.: 10/808,245

Filed: March 24, 2004

Group Art Unit: 1762

Examiner: Katherine A. Bareford

For: IMPROVED KINETIC SPRAY NOZZLE  
SYSTEM DESIGN

**SUPPLEMENTAL**  
**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR 1.97 AND 1.98**

**Mail Stop Amendment**  
**Commissioner for Patents**  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.97 and 37 CFR 1.98 and in compliance with 37 CFR 1.56, Applicant hereby makes of record the patents, publications, or other information listed on the attached Form PTO/SB/08A. Applicant respectfully requests that the Office consider the patents, publications, or other information and make these of record in the subject application.

The above identified patent application is being or was filed after June 30, 2003, such that copies of each cited U.S. Patent and each cited U.S. Patent Application Publication are not required to be submitted, see 37 CFR 1.98(a)(2)(ii). However, copies of the remaining patents and publications, if any, are enclosed herewith. None of the patents, publications, or other information being provided discloses the inventive concepts claimed in the subject application.

05/17/2007 SSITHIB1 00000046 082789 10808245  
01 FC:1806 180.00 DA

A concise explanation of the relevance of the listed foreign language patents, publications or information, not published in English, as presently understood by the individual designated in 37 C.F.R. §1.56(c) most knowledgeable about the content of the information, is as follows.

- DE4236911 - Discloses a thermal spray process in which powder particles are heated and accelerated in a stream of gas and then sprayed via a jet onto a surface.
- DE10037212 - Discloses a substrate having a coating applied by a thermal spray method.
- DE10126100 - Discloses cold gas spraying method and device.
- DE19959515 - Discloses high-pressure spray coating method.
- JP04180770 - Discloses sterilizing/deodorizing device with electrodes formed by thermal spraying.
- JP04243524 - Discloses diesel exhaust gas trap formed by thermal spraying metal.
- JP55031161 - Discloses flame-sprayed coating on oven.
- JP61249541 - Discloses arc thermal spraying.
- WO02/052064 - Discloses spray coating of metals.

Submitted herewith is an English translation of the foreign language patents, publications or information, or of portions of those patents, publications or information listed on Form PTO/SB/08A.

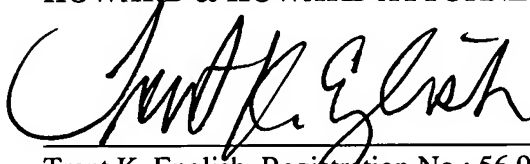
The Supplemental Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and Applicant elects the option to pay the fee set forth in 37 C.F.R. §1.17(p) for submission of this Supplemental Information Disclosure Statement. Please charge the \$180.00 fee to Howard & Howard Attorneys, P.C. deposit account number 08-2789. A duplicate of this paper is enclosed.

U.S.S.N.: 10/808,245

In addition to the above, the Commissioner is authorized to charge Howard & Howard Attorneys, P.C. Deposit Account No. 08-2789 for any additional fees or credit any overpayment.

Respectfully submitted,

**HOWARD & HOWARD ATTORNEYS, P.C.**



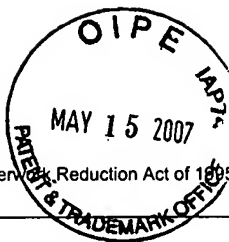
**Date: May 15, 2007**

Trent K. English, Registration No.: 56,951  
The Pinehurst Office Center  
39400 Woodward Avenue, Suite 101  
Bloomfield Hills, Michigan 48304-5151  
(248) 723-0462

**CERTIFICATE OF MAILING BY "EXPRESS MAIL"**

I hereby certify that the enclosed **Supplemental Information Disclosure Statement, PTO/SB/08a**, copies of foreign references, return post card and fee of **\$180.00 (using deposit account)** are being deposited with the United States Postal Service as Express Mail, postage prepaid, in an envelope as "Express Mail Post Office to Addressee", **Mailing Label No. EV 695 475 955 - US** and addressed to **Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450**, on **May 15, 2007**.

  
Brenda J. Hughes



PTO/SB/08a (08-03 )

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10808245
Filing Date	2004-03-24
First Named Inventor	Taeyoung Han
Art Unit	1762
Examiner Name	Katherine A. Bareford
Attorney Docket Number	DP-310179

**U.S.PATENTS**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	5424101		1995-06-13	Atkins et al.	
	2	5875830		1999-03-02	Singer et al.	
	3	6442039		2002-08-27	Chris Schreiber	

If you wish to add additional U.S. Patent citation information please click the Add button.

**U.S.PATENT APPLICATION PUBLICATIONS**

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

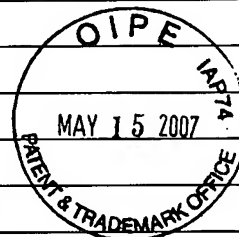
If you wish to add additional U.S. Published Application citation information please click the Add button.

**FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> j	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	4236911	DE		1993-12-23	OSU-Maschinenbau GmbH		<input type="checkbox"/>

**INFORMATION DISCLOSURE  
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( Not for submission under 37 CFR 1.99)

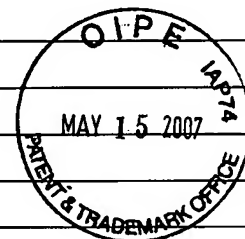
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Examiner Name	Katherine A. Bareford
Attorney Docket Number	DP-310179



2	10037212	DE		2002-01-17	Linde Gas AG		<input type="checkbox"/>
3	10126100	DE		2002-12-05	Linde AG		<input type="checkbox"/>
4	19959515	DE		2001-06-13	DACS Dvorak Advanced Coating Solutions, Thun, CH		<input type="checkbox"/>
5	04180770	JP		1992-06-26	TDK Corp		<input type="checkbox"/>
6	04243524	JP		1992-08-31	Matsushita Electric Ind Co Ltd.		<input type="checkbox"/>
7	55031161	JP		1980-05-03	Nikken Toso Kogyo KK		<input type="checkbox"/>
8	61249541	JP		1986-11-06	Matsushita Electric Ind Co Ltd		<input type="checkbox"/>
9	0860516	EP		1998-08-26	Fuji Kihan Co., Ltd.		<input type="checkbox"/>
10	1160348	EP		2001-12-05	Praxiar S. T. Technology, Inc.		<input type="checkbox"/>
11	1245854	EP		2002-02-10	Delphi Technologies, Inc.		<input type="checkbox"/>
12	02052064	WO		2002-07-04	Obschestvo S. Ogranichennoi		<input type="checkbox"/>

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Attorney Docket Number	DP-310179



13	03009934	WO		2003-02-06	Honda Giken Kabushiki Kaisha	<input type="checkbox"/>
14	9822639	WO		1998-05-28	Obninski Tsent Poroshkovogo Napylenia	<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1		<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

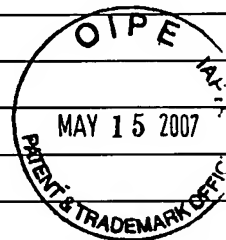
Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

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Examiner Name	Katherine A. Bareford
Attorney Docket Number	DP-310179



**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

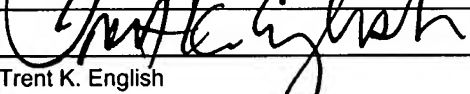
**OR**

- ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☒ See attached certification statement.
- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☐ None

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2007-05-15
Name/Print	Trent K. English	Registration Number	56591

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

## Privacy Act Statement



The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.